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42

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,881	02/18/2004	Yong-Kuk You	Q78875	9609

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EXAMINER

MEDE, ESTEVE

ART UNIT PAPER NUMBER

2109

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/779,881

Applicant(s)

YOU ET AL.

Examiner

Esteve Mede

Art Unit

2109

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 07/09/2004 and 2/18/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

Claim Objections

1. Claims 7 and 13 are objected to because of the following informalities: in claims 7 and 13, line 5 the term "a domain authentication process" should be --the domain authentication process--. Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. **Claims 1-14** are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1, 2, 3 and 9, are drawn towards a domain authentication method for exchanging content between devices comprising, the steps of setting domain identification information into a predetermined device connected on one of a wired and wireless network; generating a domain secret key using the set domain identification information and predetermined device identification information; generating a predetermined first code value and transmitting a first packet encrypted with the first code value using the domain secret key generated in the second step; receiving a second packet that is encrypted with the first code value, which has been decrypted from the first encrypted packet using the domain secret key generated in the second step, and a second code value generated by another device; and decrypting the second packet received in the fourth step by using the domain secret key generated in the

Art Unit: 2109

second step and determining whether a specific bit frame of the decrypted second packet is equal to the predetermined first code value generated in the third step.

In order for a method to be statutory, it must result in useful, concrete and tangible results. In this instance there is no result of the methods as claimed; the mere act of generating domain secret code and determining if devices in communication belong to the same group does not result in any real word change as it does not cause any action outside the method claimed. Therefore the methods as claimed do not cause any tangible output result.

Dependent **Claims 4-8 and 10-14** are rejected for being dependent upon rejected claim 3 and 9, and for failing to meet statutory requirements of the base claims 3 and 9.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. **Claims 1-14**, are rejected under 35 U.S.C. 102(e) as being anticipated by

Yamamoto et al. (US 2003/0084291 A1).

Regarding claims 1, 2, 3 and 9, Yamamoto discloses setting domain identification information into a predetermined device connected on one of a wired network and a wireless network and generating a domain secret key using the set domain identification information (common information discloses in the prior art is the secret key of the claimed invention (paragraph 0088, lines 3-7; paragraph 0090, lines 2-4)); a third step of generating a predetermined first code value and transmitting a first packet encrypted with the first code value using the domain secret key generated in the second step (paragraph 0096, lines 1-5; paragraph 0097, lines 6-9); a fourth of receiving a second packet that is encrypted with the first code value, which has been decrypted from the first encrypted packet using the domain secret key generated by another device (paragraph 108, lines 1-14; paragraph 109-, lines 1-7; paragraph); a fifth step of decrypting the second packet received in the fourth step by using the domain secret key generated in the second step and determining whether a specific bit frame of the decrypted second packet is equal to the predetermined first code value generated in the third step (paragraph 0110, lines 6-14; paragraph 0111, lines 1-5; paragraph 0115, lines 1-20).

Regarding claims 4-5 and 10-11, Yamamoto discloses the method wherein the domain secret key is set as resultant value of a cryptographic one-way or hash function whose input variables are the domain identification information and the device identification information (one-way function is a property of a hash function, therefore, one-way function and hash function as claimed will be regarded as a hash function (paragraph 0075, lines 4-6)).

Regarding claims 6, and 12, Yamamoto discloses the method wherein the first and second code values are predetermine bits random numbers generated by the devices themselves (paragraph 0096, lines 1-5; paragraph 0119, lines 1-9).

Regarding claims 7-8 and 13-14, Yamamoto discloses the method wherein the fifth step further comprises the step of generating a session key to be used for content encryption when the specific bit frame of the second decrypted packet is equal to the predetermined first code value generated in the third step (paragraph 0104, lines 1-5) or terminating a domain authentication process when the specific bit frame is not equal to the first code value (paragraph 0112, lines 5-14; paragraph 0107, lines 1-5; paragraph 0108, lines 1-7).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esteve Mede whose telephone number is 571-270-1594. The examiner can normally be reached on Monday thru Friday, 8:30-5:00 PM, EST.

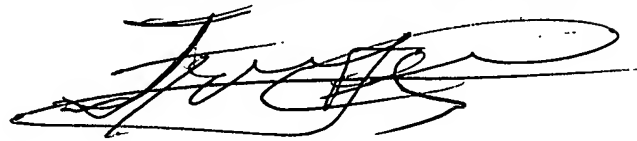
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frantz Jules can be reached on 571-272-6681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2109

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Esteve Mede
em
January 30, 2007

FRANTZ JULES
SUPERVISORY PATENT EXAMINER

A handwritten signature in black ink, appearing to read 'Frantz Jules', is written over a horizontal line.